

CLAIMS

The invention claimed is:

1. A fusible electric slide switch, comprising:

a) a base;

b) a fuse carrier; and

c) a cover;

wherein said fuse carrier is slidably mounted to said base; and

wherein said cover maintains said fuse carrier slidably mounted to said base.

2. The switch as defined in claim 1, wherein said base has a back portion; and

wherein said base has a top portion.

3. The switch as defined in claim 2, wherein said back portion of said base has an uppermost edge;

wherein said back portion of said base has a forwardmost surface; and

wherein said back portion of said base has a lowermost edge.

4. The switch as defined in claim 3, wherein said top portion of said base has a lowermost surface; and

wherein said top portion of said base extends forwardly from said uppermost edge of said back portion of said base so as to be generally inverted L-shaped in lateral cross section.

5. The switch as defined in claim 4, wherein said base has a plurality of electrical terminals;

1 wherein said plurality of electrical terminals of said base are
2 disposed on said forwardmost surface of said back portion of said
3 base; and
4 wherein said plurality of electrical terminals of said base are
5 disposed adjacent said lowermost edge of said back portion of said
6 base.

7 6. The switch as defined in claim 5, wherein said base has a plurality
8 of electrical lands;
9 wherein said plurality of electrical lands of said base have a
10 plurality of electrodes, respectively;
11 wherein said plurality of electrical lands of said base are disposed
12 on said forwardmost surface of said back portion of said base; and
13 wherein said plurality of electrical lands of said base electrically
14 communicate with said plurality of electrical terminals of said
15 base, respectively.

16 7. The switch as defined in claim 6, wherein said base has a pair of
17 plates;
18 wherein said pair of plates of said base are disposed on said
19 forwardmost surface of said back portion of said base;
20 wherein said pair of plates of said base cover said plurality of
21 electrical lands of said base, except for said plurality of
22 electrodes of said plurality of electrical lands of said base; and
23 wherein one plate of said base has a blind bore.

24 8. The switch as defined in claim 7, wherein said base has a plunger
25 assembly;
26 wherein said plunger assembly of said base comprises said lowermost
27 surface of said top portion of said base having a blind bore;
28 wherein said plunger assembly of said base comprises a plunger;

1 wherein said plunger of said plunger assembly of said fuse carrier
2 is disposed in said blind bore in said lowermost surface of said top
3 portion of said base; and
4 wherein said plunger of said plunger assembly of said fuse carrier
5 is biased outwardly from said blind bore in said lowermost surface
6 of said top portion of said base by a spring.

7 9. The switch as defined in claim 8, wherein said fuse carrier has a
8 forwardmost surface;
9 wherein said fuse carrier has a rearwardmost surface;
10 wherein said fuse carrier has a pair of sidewardmost surfaces; and
11 wherein said fuse carrier has an uppermost surface.

12 10. The switch as defined in claim 9, wherein said rearwardmost surface
13 of said fuse carrier abuts against said pair of plates of said base
14 and said uppermost surface of said fuse holder abuts against said
15 lowermost surface of said top portion of said base as said fuse
16 carrier selectively slides sidewardly relative to said base.

17 11. The switch as defined in claim 9, wherein said forwardmost surface
18 of said fuse carrier has a pair of recesses; and
19 wherein said pair of recesses in said forwardmost surface of said
20 fuse carrier are for holding a pair of fuses, respectively.

21 12. The switch as defined in claim 11, wherein said pair of recesses in
22 said forwardmost surface of said fuse carrier are disposed adjacent
23 said pair of sidewardmost surfaces of said fuse carrier,
24 respectively.

25 13. The switch as defined in claim 11, wherein said fuse carrier has two
26 pair of electrodes; and
27 wherein said two pair of electrodes of said fuse carrier have tails.

- 1 14. The switch as defined in claim 13, wherein each pair of electrodes
2 of said fuse carrier are disposed in an associated recess in said
3 forwardmost surface of said fuse carrier;
4 wherein each pair of electrodes of said fuse carrier are for
5 electrically communicating with an associated fuse;
6 wherein said tails of said two pair of electrodes of said fuse
7 carrier extend through said rearwardmost surface of said fuse
8 carrier; and
9 wherein said tails of said two pair of electrodes of said fuse
10 carrier selectively electrically communicate with said plurality of
11 electrodes of said base as said fuse carrier slides sidewardly
12 relative to said base.
- 13 15. The switch as defined in claim 11, wherein said fuse carrier has a
14 handle;
15 wherein said handle extends generally centrally through said fuse
16 carrier;
17 wherein said handle extends from said forwardmost surface of said
18 fuse carrier to said rearwardmost surface of said fuse carrier; and
19 wherein said handle of said fuse carrier moves with said fuse
20 carrier.
- 21 16. The switch as defined in claim 13, wherein said fuse carrier has a
22 pair of jumper electrodes; and
23 wherein said pair of jumper electrodes of said fuse carrier
24 electrically connect associated ones of each pair of said two pair
25 of electrodes of said fuse carrier with each other.
- 26 17. The switch as defined in claim 9, wherein said fuse carrier has a
27 plunger assembly;
28 wherein said plunger assembly of said fuse carrier comprises said
29 rearwardmost surface of said fuse carrier having a blind bore;

1 wherein said plunger assembly of said fuse carrier comprises a
2 plunger;
3 wherein said plunger of said fuse carrier is disposed in said blind
4 bore in said rearwardmost surface of said fuse carrier;
5 wherein said plunger of said fuse carrier is biased outwardly from
6 said blind bore in said rearwardmost surface of said fuse carrier
7 by a spring; and
8 wherein said plunger of said plunger assembly of said fuse carrier
9 enters said blind bore in said one plate of said base when said fuse
10 carrier is in an on position.

11 18. The switch as defined in claim 9, wherein said fuse carrier has a
12 stop assembly;
13 wherein said stop assembly of said fuse carrier comprises said
14 uppermost surface of said fuse carrier having a blind slot extending
15 therealong;
16 wherein said stop assembly of said fuse carrier comprises a pawl;
17 wherein said pawl of said stop assembly of said fuse carrier is
18 slidably mounted in said blind slot in said uppermost surface of
19 said fuse carrier; and
20 wherein said pawl of said stop assembly of said fuse carrier
21 selectively cooperates with said plunger assembly of said base.

22 19. The switch as defined in claim 11, wherein said cover has a
23 rearwardmost surface;
24 wherein said cover captures said fuse carrier between itself and
25 said base; and
26 wherein said rearwardmost surface of said cover abuts said
27 forwardmost surface of said fuse carrier as said fuse carrier
28 selectively slides sidewardly relative to said base and said cover.

- 1 20. The switch as defined in claim 15, wherein said cover has a pair of
2 through slots;
3 wherein said pair of through slots in said cover align with said
4 pair of recesses in said forwardmost surface of said fuse carrier
5 when said fuse carrier is in an off position for allowing access to
6 the fuses; and
7 wherein said pair of through slots in said cover do not align with,
8 so as to allow said cover to conceal, said pair of recesses in said
9 forwardmost surface of said fuse carrier when said fuse carrier is
10 in an on position for preventing contact with electrical components
11 by a user.
- 12 21. The switch as defined in claim 20, wherein said cover has a
13 secondary through slot;
14 wherein said secondary through slot in said cover extends sidewardly
15 from one of said through slots in said cover;
16 wherein said handle of said fuse carrier extend through said
17 secondary through slot in said cover; and
18 wherein said handle of said fuse carrier moves along said secondary
19 through slot in said cover as said fuse carrier traverses on and off
20 positions thereof.
- 21 22. The switch as defined in claim 19, wherein said cover has two pair
22 of spring contacts; and
23 wherein said two pair of spring contacts of said cover are disposed
24 on said rearwardmost surface of said cover.

1 23. The switch as defined in claim 22, wherein each pair of said two
2 pair of spring contacts of said cover align with an associated one
3 of said pair of recesses in said forwardmost surface of said fuse
4 carrier when said fuse carrier is in on position for applying a
5 force to and maintain fuses in said pair of recesses in said
6 forwardmost surface of said fuse carrier.